

What is claimed is:

1           1.    A method comprising:  
2                   soaking a substrate having a dielectric deposited  
3 thereon in a salt solution; and  
4                   depositing an oxide on said dielectric.

1           2.    The method of claim 1 wherein depositing an oxide  
2 on said dielectric includes depositing aluminum oxide on  
3 said dielectric.

1           3.    The method of claim 1 wherein soaking said  
2 substrate in said salt solution includes soaking said  
3 substrate in a salt solution comprising an aluminum salt.

1           4.    The method of 3 wherein soaking said substrate in  
2 said salt solution comprising said aluminum salt includes  
3 soaking said substrate in a salt solution comprising  
4 aluminum chloride dissolved in water.

1           5.    The method of 3 wherein soaking said substrate in  
2 said salt solution comprising said aluminum salt includes  
3 soaking said substrate in a salt solution comprising  
4 aluminum nitrate dissolved in water.

1           6.    The method of claim 3 wherein soaking said  
2 substrate in said salt solution comprising said aluminum  
3 salt includes causing the reactants in said aluminum salt

4 solution available for surface reaction to range from about  
5 a few parts per million to about one percent.

1 7. The method of claim 1 wherein soaking said  
2 substrate in said salt solution includes adjusting the pH  
3 of said salt solution.

1 8. The method of claim 1 wherein depositing said  
2 oxide on said dielectric includes depositing said oxide on  
3 silicon dioxide.

1 9. The method of claim 1 wherein depositing said  
2 oxide on said dielectric includes depositing said oxide on  
3 hafnium oxide.

1 10. The method of claim 1 including depositing a gate  
2 material on said oxide.

1 11. A method comprising:  
2 preparing a salt solution;  
3 exposing a dielectric deposited on a substrate to  
4 said salt solution; and  
5 causing an oxide to deposit on said dielectric.

1 12. The method of claim 11 wherein preparing said  
2 salt solution includes preparing an aluminum salt solution.

1        13. The method of claim 12 wherein preparing said  
2 aluminum salt solution includes preparing an aluminum  
3 chloride solution.

1        14. The method of claim 12 wherein preparing said  
2 aluminum salt solution includes preparing an aluminum  
3 nitrate solution.

1        15. The method of claim 12 wherein preparing said  
2 aluminum salt solution includes adjusting the pH of said  
3 aluminum salt solution.

1        16. The method of claim 12 wherein causing an oxide  
2 to deposit on said dielectric includes causing reactants in  
3 said aluminum salt solution to react with the top surface  
4 of said dielectric.

1        17. The method of claim 16 wherein causing said  
2 reactants in said aluminum salt solution to react with the  
3 top surface of said dielectric includes depositing an  
4 aluminum oxide layer ranging in thickness from about a few  
5 parts per million to one or more atomic layers.

1        18. The method of claim 11 wherein exposing said  
2 dielectric to said salt solution includes exposing a

3 dielectric selected from the group consisting of silicon  
4 dioxide, hafnium dioxide and zirconia to said salt  
5 solution.

1 19. The method of claim 11 including removing said  
2 substrate from said salt solution and rinsing.

1 20. The method of claim 11 wherein exposing said  
2 dielectric to said salt solution includes exposing said  
3 dielectric to said salt solution for about a few seconds to  
4 about an hour.

1 21. A method comprising:  
2 depositing a dielectric on a substrate; and  
3 causing an oxide to deposit on said dielectric by  
4 immersing said substrate in a salt solution.

1 22. The method of claim 21 wherein depositing a  
2 dielectric on said substrate includes depositing an oxide  
3 on said substrate.

1 23. The method of claim 22 wherein depositing said  
2 oxide on said substrate includes depositing hafnium oxide  
3 on said substrate.

1        24. The method of claim 22 wherein depositing said  
2 oxide on said substrate includes depositing zirconia on  
3 said substrate.

1        25. The method of claim 22 wherein depositing said  
2 oxide on said substrate includes depositing silicon dioxide  
3 on said substrate.

1        26. The method of claim 21 wherein causing an oxide  
2 to deposit on said dielectric by immersing said substrate  
3 in a salt solution includes causing aluminum oxide to  
4 deposit on said dielectric by immersing said substrate in  
5 an aluminum salt solution.

1        27. The method of claim 26 wherein causing said  
2 aluminum oxide to deposit on said dielectric includes  
3 causing about a few parts per million of aluminum oxide to  
4 one or more atomic layers of aluminum oxide to deposit on  
5 said dielectric.

1        28. The method of claim 26 including adjusting the pH  
2 of said aluminum salt solution.

1        29. The method of claim 26 wherein causing aluminum  
2 oxide to deposit on said dielectric by immersing said  
3 substrate in said aluminum salt solution includes causing

4 the top surface of said dielectric to react with reactants  
5 in said aluminum salt solution.

1 30. The method of claim 21 including a forming a gate  
2 material on said oxide.